

COMPLIANCE COMPONENT

Revised 09-19-05

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	DEFINITION						
Name	Markup Language Checking						
Description	There are tools and methods available to assist Web (content) developers in creating valid HTML/XHTML in accordance with W3C standards.						
Rationale	Markup languages are not rendered the same in all Web browsers. Some browsers are more tolerant of invalid code where others ignore the code.						
Benefits	Valid HTML/XHTML will make the State of Missouri Web sites useable to the widest possible audiences. Additional benefits include: • Using HTML validation tools speeds up the process of checking your code • Validating your code to current standards will prepare your Web sites for future compatibility.						
		ASSOCIATED ARCHITECTURE LEVELS					
Specify the Domain Name	Interface						
Specify the Discipline Name	Branding						
Specify the Technology Area Name	Usability						
Specify the Product Component Name	W3C Markup Language Validation Service, WDG HTML Validator, Web Developer Toolbar (Firefox), AIS Web Accessibility Toolbar (Internet Explorer)						
	COMPLIANCE COMPONENT TYPE						
Document the Compliance Component Type		Standard					
Component Sub-type							
		COMPLIANCE DETAIL					
		There are eleven major requirements for XHTML that are not in HTML.					
State the Guideline, Standard or Legislation		 1. You must use a proper DTD. Each XHTML page should have a Document Type Definition (DTD or Doctype) as the first line of the page. There are three types: The XHTML Strict DTD includes all elements and attributes that have not been deprecated or do not appear in frameset documents. For documents that use this DTD, use this document type declaration: <!DOCTYPE HTML PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"> The XHTML Transitional DTD includes everything in the strict DTD plus deprecated elements and attributes (most of which concern visual presentation). For documents that use this DTD, use this document type declaration: <!DOCTYPE HTML "-//W3C//DTD XHTML 1.0 Transitional//EN" http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> 					

 The XHTML Frameset DTD includes everything in the transitional DTD plus frames as well. For documents that use this DTD, use this document type declaration:

<!DOCTYPE HTML "-//W3C//DTD XHTML 1.0 Frameset//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-frameset.dtd">

2. You must use a proper namespace.

<a href="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en" lang="en" | <a href="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en" | <a href="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en" | <a href="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en" lang="en

3. You must declare your content type.

Insert a meta tag in the head of the document, like this: <meta http-equiv="content-type" content="text/html; charset=ISO-8859-1" /> In this example, the document uses the ISO-8859-1 character set (also known as Latin-1). There are other character sets available if you are coding in other languages or need an internationalized character set.

4. Elements must be properly nested

Wrong: **<i>**Item 1**</i>**Right: **<i>**Item 1**</i>**

5. You must make all your tags lowercase.

XHTML is case-sensitive. All elements and attributes (tags and properties) must be in lowercase in order to validate.

Here is a valid code example:

col class="bigfont">Item 1
 li>li>= 1

6. You must quote all attribute values.

You will need to use quotes:

7. All attributes require values.

Any attribute that was just a word in HTML will need to have a value declared as well.

HTML: <input type="radio" name="radio1" value="5" selected>

XHTML: <input type="radio" name="radio1" value="5" selected="selected">

8. You must close all tags.

XHTML makes you close those tags:

The quick red fox jumped over the lazy brown dog.

She sells seashells by the seashore.

9. Even empty tags, like
.

Tags like

hr> and do not have a corresponding closing tag (like </br>, </hr>or).

In XHTML, you close the tag by adding a space and a forward slash before the closing >,

like this:

 and

10. You can't use double dashes in comments.

XHTML only allows a double dash ("—") at the beginning and the end of a comment.

So this is not allowed:

<!--This is a bad comment—no fooling. -->

		If you us ">", "<" a	need to encode sp se an ampersand, gr and """, respectively) np;, >, < and &d	eater than sig in your text, ;	gn, less tha	an sign or quote ("&", eed to encode them like	
Document Source Reference #							
			Compliance So	urces			
Name	W3C	W	ebsite		http://ww	/w.w3.org/MarkUp/	
Contact Information							
Name	State of I Standard Guideline	ls & W	& Website:		http://oa.mo.gov/dmd/ guidelines/index.htm		
Contact Information							
			K EYWORD:	S			
List Keywords Markup Language Checking, HTML, XHTML, DTD, Doctype, Document Type Definition, XHTML Transitional, XHTML Strict, XHTML Frameset, Namespace, HTML Validation, HTML Validator, Web browsers							
		С	OMPONENT CLASS	SIFICATION			
Provide the Classification	☐ Emergi	ing	⊠ Current	□ 7	☐ Twilight ☐ Sunset		
Sunset Date							
		Con	PONENT SUB-CLA	SSIFICATION	N		
Sub- Classification	Date		Additional Sub-Classification Information				
☐ Technology Watch							
☐ Variance							
☐ Conditional Use							
		Ration	ale for Componen	t Classificat	ion		
Document the Rationale for Component Classification							
Migration Strategy							
Document the Migration Strategy							
			Impact Position St	atement			
Document the Position Statement on Impact							
CURRENT STATUS							
Provide the Current Status	☐ In Deve	elopment	☐ Under Reviev	v 🛚 🖾 Ap	oproved	☐ Rejected	

AUDIT TRAIL							
Creation Date	07/08/2005	Date Approved / Rejected	9/27/05				
Reason for Rejection							
Last Date Reviewed		Last Date Updated					
Reason for Update							